DOUBLE TRIODE

ECC35

High-gain double triode with separate cathodes for use in paraphase A.F. voltage amplifiers.

HEATER

V_h	6.3	V
I_h	0.4	A

CAPACITANCES

$c_{a'-a''}$	0.75	μμF
$c_{a'-g'}$	2.5	μμF
$c_{in'}$	3.0	μμF
$c_{out'}$	1.0	μμF
$c_{a''-g''}$	3.0	μμF
$c_{in''}$	3.0	μμF
$c_{out''}$	1.3	μμF

CHARACTERISTICS (each section)

V_a	250	V
V_g	−2.5	V
i_a	2.3	mA
g_m	2.0	mA/V
μ	68	
r_a	34	kΩ

LIMITING VALUES (each section)

$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	1.5	W
I_k max.	8.0	mA
R_{g-k} max.	1.5	MΩ
V_{h-k} max.	90	V

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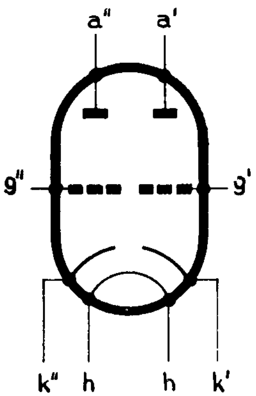
OPERATING CONDITIONS AS R.C. COUPLED A.F. AMPLIFIER

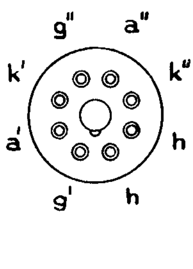
V_b (V)	R_a (k Ω)	I_a (mA)	R_k (k Ω)	$\frac{V_{out}}{V_{in}}$	V_{out}* ($V_{r.m.s.}$)	V_{out}† ($V_{r.m.s.}$)	D_{tot} (%)	R_{gl}‡ (k Ω)
400	100	1.3	2.7	40.5	37.5	66.2	10	330
350	100	1.1	2.7	40.5	32.2	57.0	10	330
300	100	1.0	2.7	40	28.0	48.7	10	330
250	100	0.8	2.7	40	23.2	41.1	10	330
200	100	0.65	2.7	39.5	18.7	28.5	8	330
400	220	0.73	4.7	46	44	80	10	680
350	220	0.63	4.7	45.5	38	69.3	10	680
300	220	0.53	4.7	45.5	32.5	59	10	680
250	220	0.45	4.7	45	27	43	8.5	680
200	220	0.38	4.7	45	21.5	33.6	8.2	680

* At $D_{tot} = 5\%$

† At $D_{tot} = 10\%$ or start of I_g

‡ Grid resistor of following valve.





OCTAL BASE

